Refine Search

Search Results -

Terms	Documents	
L3 and (poi or (point-of-interest) or ("point of interest"))	0	

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

L9

Refine Search

Recall Text
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Interrupt

Search History

DATE: Tuesday, August 10, 2004 Printable Copy Create Case

Set Name Query	Hit Count	
side by side		result set
DB=EPAB,JPAB,DWPI,TDBD; THES=ASSIG	NEE; PLUR=YES; OP=OR	
L9 L3 and (poi or (point-of-interest) or ("p	point of interest")) 0	<u>L9</u>
DB=USPT; THES=ASSIGNEE; PLUR=YES; (OP=OR	
<u>L8</u> L4 and poi	1	<u>L8</u>
<u>L7</u> L4 and interest\$	1	<u>L7</u>
<u>L6</u> L4 and 12	2	<u>L6</u>
<u>L5</u> L4 and 13	0	<u>L5</u>
<u>L4</u> 6427118.pn. or 6434482.pn.	2	<u>L4</u>
<u>L3</u> L2 and ((point-of-interest) or ("point of	f interest")) 63	<u>L3</u>
<u>L2</u> gps or (global adj position\$ adj system\$	\$) 21998	<u>L2</u>
<u>L1</u> vehicle and (navigation with system\$)	6672	<u>L1</u>

END OF SEARCH HISTORY

First Hit Fwd Refs

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Generate Collection Print

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L4: Entry 1 of 2

File: USPT

Aug 13, 2002

US-PAT-NO: 6434482

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Oshida; Naoya Tokyo JP Takahashi; Shiqehito Yokohama JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Alpine Electronics, Inc. Tokyo JP 03

APPL-NO: 09/ 599237 [PALM]
DATE FILED: June 22, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 11-196868 July 12, 1999

INT-CL: [07] $\underline{G01}$ \underline{C} $\underline{21}/\underline{00}$, $\underline{G08}$ \underline{G} $\underline{1}/\underline{096}$

US-CL-ISSUED: 701/209; 701/201, 701/211, 340/995 US-CL-CURRENT: 701/209; 340/995.24, 701/201, 701/201

FIELD-OF-SEARCH: 701/200, 701/211, 701/201, 701/209, 340/995

Search Selected

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search ALL

Clear

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL			
	4761742	August 1988	Hanabusa et al.				
	5229947	July 1993	Ross et al.	364/443			
\Box	5515283	May 1996	Desai et al.	364/443			
Π.	5543789	August 1996	Behr et al.	340/995			
	5654892	August 1997	Fujii et al.	364/449.5			

<u>5767795</u>	June 1998	Schaphorst	340/988
5790973	August 1998	Blaker et al.	701/123
5802492	September 1998	DeLorme et al.	701/200
6014090	January 2000	Rosen et al.	340/905
6175800	January 2001	Mori et al.	701/202

ART-UNIT: 3661

PRIMARY-EXAMINER: Zanelli; Michael J.

ATTY-AGENT-FIRM: Brinks Hofer Gilson & Lione

ABSTRACT:

While the vehicle is traveling on a highway, the controller searches facilities located within a specific distance from the next exit of the highway, on the basis of the map data contained in the CD-ROM and the current vehicle position measured by a position measuring device, and provides the result to a display controller. The display controller superimposes on a displayed map image on a monitor the searched facilities as well as the distances from the relevant highway exit. The controller also searches a guide route to a facility selected by the user, stores it in a route guide memory, and executes route guidance to the facility on the basis of the guide route stored in the guide route memory. Thus, the invention provides a navigation system whereby the user can find facilities located within a specific distance from the next exit of the highway.

18 Claims, 7 Drawing figures

First Hit Fwd Refs **End of Result Set**

Previous Doc Next Doc Go to Doc#

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L7: Entry 1 of 1

File: USPT Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

- 1. A Point of Interest (POI) display method that associates with a highway exit a list of POIs located around the exit, wherein, while a vehicle is traveling the highway, the POIs associated with the next highway exit are displayed to be searched from the POI list and the name of the highway exit is displayed.
- 9. A Point of Interest (POI) display method for a navigation system that executes guidance to a destination by an arrow display without displaying a map, the POI display method comprising the steps of: searching a guide route to the destination, searching a POI located along the guide route, within a specific distance from a vehicle position, and displaying the searched POI together with the distance from the vehicle position.

First Hit Fwd Refs End of Result Set

Previous Doc Next Doc Go to Doc#

Print

Generate Collection

L8: Entry 1 of 1 File: USPT Aug 13, 2002

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

CLAIMS:

- 1. A Point of Interest (<u>POI</u>) display method that associates with a highway exit a list of <u>POIs</u> located around the exit, wherein, while a vehicle is traveling the highway, the <u>POIs</u> associated with the next highway exit are displayed to be searched from the <u>POI</u> list and the name of the highway exit is displayed.
- 2. A \underline{POI} display method as claimed in claim 1, wherein the names or marks of the \underline{POIs} located around the highway exit are displayed together with the distances from the exit.
- 3. A <u>POI</u> display method as claimed in claim 1, wherein an arrow indicating the direction of the next highway exit is displayed.
- 4. A <u>POI</u> display method as claimed in claim 1, wherein a desired <u>POI</u> is selected from the displayed <u>POIs</u>, and a guide route from the highway exit to the selected <u>POI</u> is searched and displayed.
- 5. A <u>POI</u> display method as claimed in claim 1, wherein, whether the vehicle has passed the highway exit or not is judged, and when the vehicle is judged to have passed the exit, a <u>POI</u> associated with the next highway exit is displayed.
- 6. A <u>POI</u> display method as claimed in claim 1, wherein information of the <u>POIs</u> located around the highway exit is received from outside the vehicle.
- 7. A <u>POI</u> display method as claimed in claim 1, wherein the list of the <u>POIs</u> located around the highway exit is divided into the <u>POIs</u> associated with the exit from the highway in a first direction of travel and the <u>POIs</u> associated with the exit from the highway in a second direction of travel.
- 8. A \underline{POI} display method as claimed in claim 7, wherein a travel direction of the vehicle is detected, and a \underline{POI} associated with the travel direction is displayed.
- 9. A Point of Interest (<u>POI</u>) display method for a navigation system that executes guidance to a destination by an arrow display without displaying a map, the <u>POI</u> display method comprising the steps of: searching a guide route to the destination, searching a <u>POI</u> located along the guide route, within a specific distance from a vehicle position, and displaying the searched <u>POI</u> together with the distance from the vehicle position.
- 10. A \underline{POI} display method as claimed in claim 9, wherein the \underline{POI} is displayed by name or a mark.
- 11. A <u>POI</u> display method as claimed in claim 9, wherein a desired <u>POI</u> is selected from the <u>POIs</u> displayed on a display screen, and route guidance is executed which

regards the selected POI as a stopping point along the way.

- 12. A \underline{POI} display method as claimed in claim 9, wherein the \underline{POI} information is received from outside the vehicle.
- 14. An on-vehicle navigation system as claimed in claim 13, wherein the map data storage means stores a list of the facilities located around the highway exit and divided into the <u>POIs</u> associated with the exit from the highway in a first direction of travel and the <u>POIs</u> associated with the exit from the highway in a second direction of travel.

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End of Result Set

Generate Collection Print

L4: Entry 2 of 2

File: USPT

Jul 30, 2002

US-PAT-NO: 6427118

DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INVENTOR-INFORMATION:

NAME

CITY STATE ZIP CODE COUNTRY

Suzuki; Takumi Shizuoka JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Yazaki Corporation Tokyo JP 03

APPL-NO: 09/ 689898 [PALM] DATE FILED: October 13, 2000

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JΡ 11-294377 October 15, 1999

INT-CL: [07] $\underline{G01}$ \underline{C} $\underline{21/00}$, $\underline{G01}$ \underline{S} $\underline{1/02}$, $\underline{G01}$ \underline{S} $\underline{5/02}$, $\underline{G06}$ \underline{G} $\underline{7/78}$

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33 US-CL-CURRENT: 701/209; 340/988, 340/989, 340/990, 340/995.24, 342/357.13, 342/457, 345/33, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207, $\frac{701}{208}$, $\frac{701}{210}$, $\frac{701}{211}$, $\frac{701}{212}$, $\frac{701}{213}$, $\frac{701}{214}$, $\frac{701}{215}$, $\frac{701}{220}$, $\frac{701}{23}$, 701/24, 701/25, 701/26, 73/178R

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL

5067082 November 1991 Nimura et al. 364/449

	5784059	July 1998	Morimoto et al.	345/353
	6006161	December 1999	Katou	701/212
	6035235	March 2000	Hayashi et al.	701/211
П	6266613	July 2001	Nimura et al.	701/210

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ASSISTANT-EXAMINER: Mancho; Ronnie

ATTY-AGENT-FIRM: Morgan, Lewis & Bockius LLP

ABSTRACT:

A vehicle-mounted navigation system (1) including: a facility information acquisition device (21) which acquires facility information, wherein the facility information is position information pertaining to the facilities located around the route; a facility selection device (22) which selects, from among the facilities recorded in the facility information, upon consideration of the vehicle's travel direction, facilities whose landmarks are to be displayed on a display section (4); and a landmark display device which displays, on the display section (4), landmarks of the facilities selected by the facility selection device (22) on the basis of the facility information.

10 Claims, 5 Drawing figures

Hit List

Clear Generate Collection **Bkwd Refs** Print Fwd Refs Generate OACS

Search Results - Record(s) 1 through 10 of 21 returned.

1. Document ID: US 6434482 B1

L14: Entry 1 of 21

File: USPT

Aug 13, 2002

US-PAT-NO: 6434482

DOCUMENT-IDENTIFIER: US 6434482 B1

TITLE: On-vehicle navigation system for searching facilities along a guide route

Full Title Citation Front Review Classification Date Reference Claims KNAC Draw Do

2. Document ID: US 6421606 B1

L14: Entry 2 of 21

File: USPT

Jul 16, 2002

US-PAT-NO: 6421606

DOCUMENT-IDENTIFIER: US 6421606 B1

** See image for Certificate of Correction **

TITLE: Route guiding apparatus and medium

Full Title Citation Front Review Classification Date Reference

3. Document ID: US 6418374 B2

L14: Entry 3 of 21

File: USPT

Jul 9, 2002

Jun 4, 2002

US-PAT-NO: 6418374

DOCUMENT-IDENTIFIER: US 6418374 B2

TITLE: Navigation device

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De 4. Document ID: US 6401034 B1 L14: Entry 4 of 21

File: USPT

US-PAT-NO: 6401034

DOCUMENT-IDENTIFIER: US 6401034 B1

h e b b g ee e f ef TITLE: Method and system for finding intermediate destinations with a $\underline{\text{navigation}}$ system

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De Claims

US-PAT-NO: 6249740

DOCUMENT-IDENTIFIER: US 6249740 B1

TITLE: Communications <u>navigation</u> system, and <u>navigation</u> base apparatus and <u>vehicle</u>

navigation apparatus both used in the navigation system

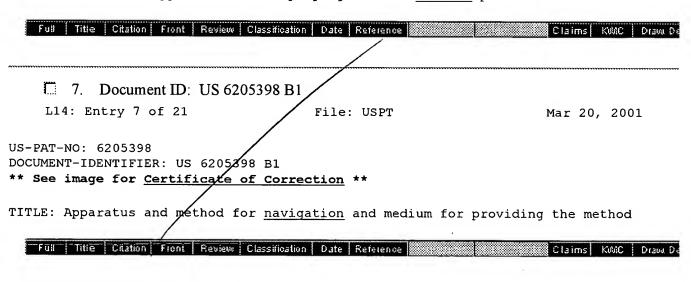
Full Title | Citation | Front | Review | Classification | Date | Reference | Claims | KOMC | Drava Date |

6. Document ID: US 6212472 B1
L14: Entry 6 of 21 | File: USPT | Apr 3, 2001

US-PAT-NO: 6212472

DOCUMENT-IDENTIFIER: US 6212472 B1

TITLE: Method and apparatus for displaying current vehicle position



8. Document ID: US 6151552 A

L14: Entry 8 of 21 F

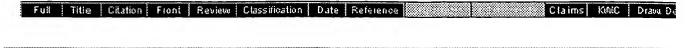
File: USPT Nov 21, 2000

US-PAT-NO: 6151552

DOCUMENT-IDENTIFIER: US 6151552 A

TITLE: Route guidance apparatus

h eb b g ee ef e c ef b e



9. Document ID: US 6125323 A

L14: Entry 9 of 21

File: USPT

Sep 26, 2000

US-PAT-NO: 6125323

DOCUMENT-IDENTIFIER: US 6125323 A

TITLE: Device for processing road data or intersection data



L14: Entry 10 of 21

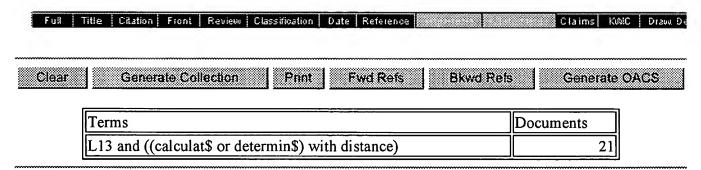
File: USPT

Aug 1, 2000

US-PAT-NO: 6098015

DOCUMENT-IDENTIFIER: US 6098015 A

TITLE: Navigation system for vehicles and storage medium



Display Format: TI Change Format

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Generate OACS

Search Results - Record(s) 11 through 20 of 21 returned.

11. Document ID: US 6084543 A

L14: Entry 11 of 21

File: USPT

Jul 4, 2000

US-PAT-NO: 6084543

DOCUMENT-IDENTIFIER: US 6084543 A

TITLE: Route guide apparatus

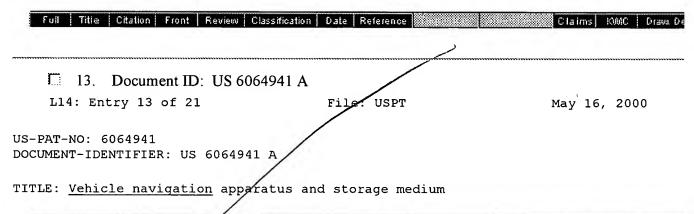
Full Title Citation Front Review Classification Date Reference Claims KWAC Drawa De Claims Claims KWAC De Claims KWAC

US-PAT-NO: 6070122

DOCUMENT-IDENTIFIER: US 6070122 A

** See image for <u>Certificate of Correction</u> **

TITLE: Vehicle navigation with priority target display



Full Title Citation Front Review Classification Date Reference Claims KWiC Draw Do

14. Document ID: US 5991689 A

L14: Entry 14 of 21

File: USPT

Nov 23, 1999

US-PAT-NO: 5991689

DOCUMENT-IDENTIFIER: US 5991689 A

h e b b cg b cc e

 ${\tt TITLE:}$ ${\tt Navigation}$ system with switching between an ordinary road preferential mode and a tall road preferential mode

Full Title Citation Front Review Classification Date Reference Claims KWC Draw De

15. Document ID: US 5978733 A

L14: Entry 15 of 21

File: USPT

Nov 2, 1999

US-PAT-NO: 5978733

DOCUMENT-IDENTIFIER: US 5978733 A

TITLE: Route search apparatus

☐ 16. Document ID: US 5944768 A

L14: Entry 16 of 21

File: USPT

Aug 31, 1999

US-PAT-NO: 5944768

DOCUMENT-IDENTIFIER: US 5944768 A

** See image for <u>Certificate of Correction</u> **

TITLE: Navigation system

17. Document ID: US 5928308 A

L14: Entry 17 of 21

File: USPT

Jul 27, 1999

Jul 28, 1998

US-PAT-NO: 5928308

DOCUMENT-IDENTIFIER: US 5928308 A

** See image for <u>Certificate of Correction</u> **

TITLE: Navigation system for vehicles

Full Title Citation Front Review Classification Date Reference Claims KMC Draw De Title 18. Document ID: US 5787383 A

File: USPT

US-PAT-NO: 5787383

DOCUMENT-IDENTIFIER: US 5787383 A

L14: Entry 18 of 21

TITLE: Vehicle navigation apparatus with route modification by setting detour point

h e b b cg b cc e

19. Document ID: US 5612881 A

L14: Entry 19 of 21

File: USPT

Mar 18, 1997

US-PAT-NO: 5612881

DOCUMENT-IDENTIFIER: US 5612881 A

TITLE: Map display system

Full Title Citation Front Review Classification Date Reference Citation Claims KMC | Craw De

20. Document ID: US 5452212 A

L14: Entry 20 of 21

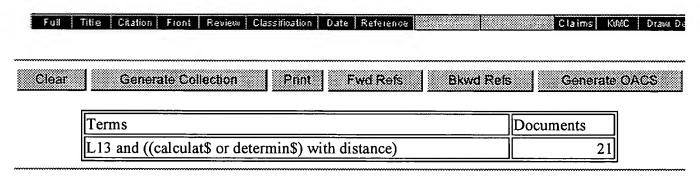
File: USPT

Sep 19, 1995

US-PAT-NO: 5452212

DOCUMENT-IDENTIFIER: US 5452212 A

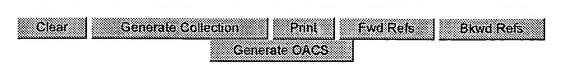
TITLE: Navigation system for vehicle



Display Format: TI Change Format

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Search Results - Record(s) 21 through 21 of 21 returned.

21. Document ID: US 4992947 A

L14: Entry 21 of 21

File: USPT

Feb 12, 1991

US-PAT-NO: 4992947

DOCUMENT-IDENTIFIER: US 4992947 A

TITLE: Vehicular <u>navigation</u> apparatus with help function

Full	Title Citation	Front P	eview C	lassification	Date	Referenc	2			Claims	s Ku	AC	Draw D
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	Terms								Dog	cuments			
	L13 and ((c	alculat\$	or dete	ermin\$) w	ith dis	stance)					21		

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(Item 1 from file: 81) 2/7/9

DIALOG(R)File 81:MIRA - Motor Industry Research

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42057

A Profile of Drivers' Map-Reading Abilities

STREETER LA; et al

Corporate Source: Bell Commun Res

Human Factors, Apr 86

April 1, 1986

Page

: 223

Collation : (17 p, 11 fig, 15 ref)

Document Type: JOURNAL Language: ENGLISH

Record Type: ABSTRACT Supplier Record Type: AA

To create better aids for everyday surface navigation, people's navigational preferences, habits, experiences, abilities, and route-selection strategies were examined. Self-described good navigators like and use maps, and they differentially value landmarks, such as rivers, railways and houses, whereas poor navigators tend not to use maps, prefer verbal instructions, and tend to rate all landmarks as equally valuable for route finding.

Routes selected by people with varying degrees of familiarity with an area were compared with routes generated by standard graph-search procedures. A shorest-path, breadth-first route characterised half of the "expert" routes, whereas none of the graph-search procedures matched "intermediate" and "novice" routes. A good predictor of whether people chose a particular road was whether the sum of A + B + C (where A equals the straight-line distance from the start to the road, B equals the distance travelled on the road, and C equals the straight-line distance from the departure point on the road to the destination) did not exceed the straight-line distance between start and destination by more than about 20%. (Auth)

First Hit Fwd Refs
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L6: Entry 2 of 2

File: USPT

Jul 30, 2002

US-PAT-NO: 6427118

DOCUMENT-IDENTIFIER: US 6427118 B1

TITLE: Vehicle-mounted navigation system, and recording medium having recorded thereon a processing program for use therewith

DATE-ISSUED: July 30, 2002

INT-CL: [07] $\underline{G01}$ \underline{C} $\underline{21/00}$, $\underline{G01}$ \underline{S} $\underline{1/02}$, $\underline{G01}$ \underline{S} $\underline{5/02}$, $\underline{G06}$ \underline{G} $\underline{7/78}$

US-CL-ISSUED: 701/209; 701/200.208-, 701/210.215-, 701/23, 701/220, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 73/178R, 342/357.13, 342/457, 345/33 US-CL-CURRENT: 701/209; 340/988, 340/989, 340/990, 340/995.24, 342/357.13, 342/457, 345/33, 701/200, 701/201, 701/202, 701/203, 701/204, 701/205, 701/206, 701/207, 701/208, 701/210, 701/211, 701/212, 701/213, 701/214, 701/215, 701/220, 701/23, 701/24, 701/25, 701/25, 701/26, 73/178R

FIELD-OF-SEARCH: 701/200-215, 701/220, 701/23, 701/24, 701/25, 701/26, 340/989, 340/990, 340/995, 340/988, 340/723, 340/727, 73/178R, 342/357.13, 342/457, 345/33